1. Thomson Tube, S Type

High-vacuum electron tube with high-accuracy electron gun and ruled target phosphorescent screen. Determine the fundamental electron charge-to-mass ratio (e/m), study mean electron velocities using field cancellation, and explore electron optics using this tube. The electron beam trajectory can be manipulated using two methods: deflection induced by the electric field of the built-in plate capacitor, or magnetically using external Helmholtz coils.

- Max. filament voltage: 6.3V AC
- Max. anode voltage: 5kV
- Max. capacitor voltage: 500V
- Anode current: approx. 0.1mA at 4kV

Code	Pack	Price
SE1000617	Each	**£899.68**

1



2. Gas Triode Tube

Electron tube filled with low-pressure helium gas, and containing a thermionic cathode, control grid, and anode. This tube is for quantitative investigations of the typical properties of a gas-immersed triode, recording the current-potential (IA-UA) characteristics of a thyratron, and observing discharges and discontinuous energy release of helium atoms during inelastic collisions with free electrons.

- Max. heater voltage: 7.5V AC/DC
- Max. anode voltage: 500V
- Anode current: approx. 10mA at 200V

Code	Description	Pack	Price
SE1000618	S type	Each	**£535.99**
SE1000653	D type	Each	**£564.99**

2



SE1000618

3. Luminescence Tube

High-vacuum electron tube with divergent electron gun and three, coloured fluorescent strips. Demonstrate stimulated light emission during and after electron bombardment of a phosphorus anode. The anode also fluoresces when illuminated with a focused ultraviolet light source.

- Max. filament voltage: 6.3V AC
- Max. anode voltage: 5kV
- Anode current: approx. 0.1mA at 4kV

Code	Description	Pack	Price
SE1000615	S type	Each	**£490.93**
SE1000648	D type	Each	**£509.71**

3



SE1000615

Lascells Ripple Tank

This compact unit provides an elegant method of demonstrating waves.

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